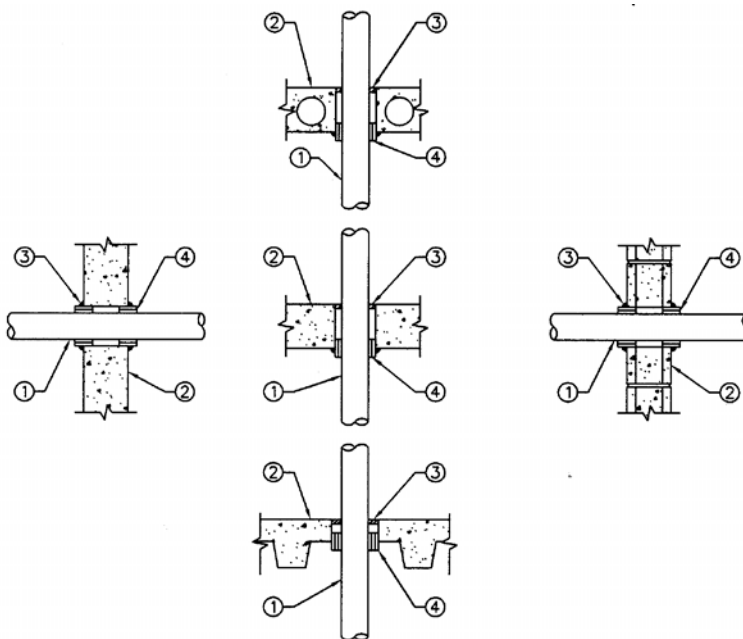


Grabber Construction Products, Inc.
Design No. JWA/PHV 120-15
Horizontal (Floor/Ceiling) or Vertical (Wall) Assembly, Single Penetrations
GrabberGard EFC and GrabberGard IFC
Test Standards: ASTM E814, UL 1479: Open and Closed Systems
ULC S115: Closed Systems**
Positive Pressure Differential – 2.5 Pa (0.01 in. of water) Minimum
Rating: 2 Hour

Penetrating Item Material	Nom Pipe Size (in.)	Annular Space (in.)	Layers of Wrap Strip	ASTM E814/UL1479 "F" Rating	ASTM E814/UL1479 "T" Rating	ULC S115 "F" & "FH" Rating	ULC S115 "FTH" Rating
PVC Pipe	Up to 3"	1/4"	2	Up to 2 Hours	2 Hours	Up to 2 Hours	2 Hours
ccPVC Pipe	Up to 3"	1/4"	2	Up to 2 Hours	2 Hours	Up to 2 Hours	2 Hours
CPVC Pipe	Up to 3"	1/4"	2	Up to 2 Hours	2 Hours	Up to 2 Hours	2 Hours
ABS Pipe	Up to 3"	1/4"	2	Up to 2 Hours	2 Hours	Up to 2 Hours	2 Hours
FRPP Pipe	Up to 2"	1/8"	1	Up to 2 Hours	2 Hours	Up to 2 Hours	2 Hours
FRPP Pipe	Up to 3"	1/4"	2	Up to 2 Hours	2 Hours	Up to 2 Hours	2 Hours
FRPP Pipe	Up to 4"	3/8"	3	Up to 2 Hours	0 Hours	Up to 2 Hours	0 Hours



1. **PENETRATING ITEM:** Centered in hole, see table above. Single penetrations only, max. hole size not to exceed table above.
2. **FLOOR/CEILING OR WALL ASSEMBLY:**
 - a) Hollow core pre-cast concrete floor/ceiling assembly having a min. cross-section thickness of 6 in. (150mm).
 - b) Cast in place, normal or light density, concrete floor/ceiling assemblies having a min. thickness of 4-1/2 in. (113mm).
 - c) Cast in place concrete wall assemblies having a min. cross-section thickness of 4-1/2 in. (113mm) or;
 - d) Hollow or concrete filled unit masonry (concrete block) wall assemblies laid up with mortar having a min. cross-section thickness of 6 in. (150mm).



- e) Min. 2 hour fire-rated floor assembly. Min. 20 GA or heavier galvanized steel decking with min. 4-1/2 in. (113mm) concrete cover.

3. FIRESTOP SYSTEM COMPONENT 1: Grabber Construction Products, Inc. – GrabberGard EFC* or GrabberGard IFC* installed at a min. thickness of 1/4 in. (6mm) within the annulus at top surface of floor assembly. A min. of 1/2 in. (13mm) bead of Firetemp CI is to be applied between interface of the floor or wall and the outer layer of intumescent wrap strip (see Firestop System Component 2).

4. FIRESTOP SYSTEM COMPONENT 2: PFP Partners – Wrap Strip WS1* – Nominal 1/8 in. thick intumescent material supplied in 2 in. (50mm) wide strips. See table for number of layers of wrap strip friction fitted into annular space. Wrap strip to extend max. 1/4 in. (6mm) below the bottom surface of the floor or both sides of the wall and fastened in place with aluminum foil tape.

*WH Labeled Component

** Tested in accordance to Canadian Code requirements for FRPP pipes. PVC, ABS and CPVC not tested to 50 Pa pressure differential as required by Canadian Code Requirements for combustible DWV pipes.